

FINAL CERTIFICATE OF ANALYSIS

SHORETANK RESULTS PER SGS analysis	Customer PO No.: _____	PRODUCT: <u>YUBASE 6</u>																																															
	Customer Material No.: _____	SHORE TANK ID: <u>ITC 80-01</u>																																															
	Vehicle ID: _____	Vessel Name: <u>BOW HERCULES</u>																																															
	Date of Shipment: _____	Manufacturer Name: <u>SK Lubricants Ltd.</u>																																															
		Manufacture Date: <u>1/27/2019</u>																																															
	API/Conversion Factor: <u>36 3/7 021</u>	Source Tank ID: <u>T-1203E; T-1203F</u>																																															
	SGS File No.: <u>4437671</u>	Supplier Name: <u>SK Lubricants Americas Inc.</u>																																															
	SGS Tested On Date: <u>3/9/19</u>	Supplier Address: <u>11700 Katy Freeway, Suite 900</u>																																															
	SGS Tank Closed Date: <u>3/9/19</u>	<u>Houston TX 77079</u>																																															
	LIMS No. <u>DP19-02152.004</u>																																																
<p>All tests have been performed using the latest revision of the methods indicated. Precision parameters apply in the determination of the results below. Users of the data shown on this report should refer to the latest published revisions of ASTM D3244, IP 367 and ISO 4259 and when publishing the test data to determine conformance with any specification or process requirement. This report shall not be reproduced except in full, without the written approval of the laboratory.</p>																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 30%;">Measurement</th> <th rowspan="2" style="width: 15%;">METHOD</th> <th colspan="2" style="width: 40%;">SPECIFICATIONS</th> <th rowspan="2" style="width: 15%;">RESULTS</th> </tr> <tr> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Appearance</td> <td>VISUAL</td> <td colspan="2">Bright & Clear</td> <td>Bright & Clear</td> </tr> <tr> <td>Specific Gravity @ 15/4 °C</td> <td>ASTM D1298</td> <td colspan="2">Report</td> <td>0.8428</td> </tr> <tr> <td>KV @ 40 °C, cSt</td> <td>ASTM D445</td> <td colspan="2">Report</td> <td>35.71</td> </tr> <tr> <td>KV @ 100 °C, cSt</td> <td>ASTM D445</td> <td>6.3</td> <td>6.7</td> <td>6.359</td> </tr> <tr> <td>Viscosity Index</td> <td>ASTM D2270</td> <td>125</td> <td></td> <td>130</td> </tr> <tr> <td>CCS Visc @ -30 °C</td> <td>ASTM D5293</td> <td colspan="2">Report</td> <td>4921</td> </tr> <tr> <td>API @ 60°F</td> <td>ASTM D1298</td> <td colspan="2">Report</td> <td>36.3</td> </tr> <tr> <td>Water Content, Karl Fischer, ppm (m/m)</td> <td>ASTMD 6304 (Proc. A)</td> <td colspan="2">Report</td> <td>44</td> </tr> </tbody> </table>			Measurement	METHOD	SPECIFICATIONS		RESULTS	Minimum	Maximum	Appearance	VISUAL	Bright & Clear		Bright & Clear	Specific Gravity @ 15/4 °C	ASTM D1298	Report		0.8428	KV @ 40 °C, cSt	ASTM D445	Report		35.71	KV @ 100 °C, cSt	ASTM D445	6.3	6.7	6.359	Viscosity Index	ASTM D2270	125		130	CCS Visc @ -30 °C	ASTM D5293	Report		4921	API @ 60°F	ASTM D1298	Report		36.3	Water Content, Karl Fischer, ppm (m/m)	ASTMD 6304 (Proc. A)	Report		44
Measurement	METHOD	SPECIFICATIONS			RESULTS																																												
		Minimum	Maximum																																														
Appearance	VISUAL	Bright & Clear		Bright & Clear																																													
Specific Gravity @ 15/4 °C	ASTM D1298	Report		0.8428																																													
KV @ 40 °C, cSt	ASTM D445	Report		35.71																																													
KV @ 100 °C, cSt	ASTM D445	6.3	6.7	6.359																																													
Viscosity Index	ASTM D2270	125		130																																													
CCS Visc @ -30 °C	ASTM D5293	Report		4921																																													
API @ 60°F	ASTM D1298	Report		36.3																																													
Water Content, Karl Fischer, ppm (m/m)	ASTMD 6304 (Proc. A)	Report		44																																													
<p style="text-align: center;">The following analysis results were reported by supplier's laboratory on the sample of shore tank(s) before loading.</p>																																																	
LOAD PORT RESULTS CARRIED FWD	Noack Volatility wt%	ASTM D5800B	8	7.4																																													
	Flash Point °C	ASTM D92	210	236																																													
	Pour Point °C	ASTM D97	-12	-12																																													
	Color ASTM	ASTM D1500	L 0.5	L0.5																																													
	Con. Carbon Residue, wt%	ASTM D189	0.05	0.01																																													
	Copper Corrosion	ASTM D130	1-a	1-a																																													
	Sulfur, ppm	ASTM D2622	Report	1.0																																													
	Total Acid Number, mgKOH/g	ASTM D664	Report	0.01																																													
	PCA's (DMSO Extract) wt%	IP 346	1.0	LT1.0																																													
	<p>Grace Chung Operations Analyst 713-341-5828 Phone</p>																																																